

# CTBA-8745BK

## Wire & Cable Compound

Conductor and Insulation Shield

**Density**

**1.14**

### Description

CTBA-8745BK is a semiconductive compound and has an excellent electrical conductivity, scorch stability and surface smoothness.

### Applications

CTBA-8745BK can be used for bonded typed, conductor and insulation shielding of high voltages up to 230kV (Um 245kV).

### Specifications

CTBA-8745BK meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

IEC 62067	ANSI/ICEA S-94-649
IEC 60840	ANSI/ICEA S-97-682
ANSI/ICEA S-108-720	AEIC CS8
ANSI/ICEA S-93-639	UL 1072
Cenelec HD 632 S1	

Physical Properties	Unit	Test Method	Typical Value
Density	g/cm <sup>3</sup>	ASTM D1505	1.14
Tensile Strength	kg/cm <sup>2</sup>	ASTM D638	150
Elongation	%	ASTM D638	190
Oven Aging @ 135 °C, 7 days			
Retention of Tensile Strength	%	ASTM D638	>90
Retention of Elongation	%	ASTM D638	>85
Low Temperature Brittleness	°C	ASTM D746	<-40
Hardness (Shore D, 1 sec.)	-	ASTM D2240	58
Electrical Properties	Unit	Test Method	Typical Value

DC Volume Resistivity			
23 °C	ohm cm	ASTM D257	<100
90 °C	ohm cm	ASTM D257	<500

1) These are typical properties and are not to be regarded as specifications.

2) Under 200 mm/minute testing speed by molded / dumbbell shaped sheet

## Processing Guidelines

CTBA-8745BK provides excellent surface finish and higher output rates over a broad range of conditions. For optimum results, melt extrusion temperatures in the range of 100~110 °C is recommended. If needed, hopper drying at 50~60 °C for 3~5 hours is recommended to remove moisture.

## Storage

The material should be stored indoors (10~30°C) in closed original packages in clean and dry environment. It is recommended that the using of the product on a first-in, first-out basis be established. Then recommended storage time at customer should not exceed 1 year.

## Quality Systems

Hanwha maintains a quality management system according to ISO 9001. This system provides traceability of individual batches and their production. If process is changed in a way that suspected to change the properties of the product, Hanwha will provide adequate information to the customer.

## Certificate

Based on quality inspection data at production, Hanwha supplies an inspection certificate for each batch. The certificate contains:

Product name  
Batch number  
Production date  
etc.

## Data Sheet and Safety

Most data sheets and safety data sheets are available on Hanwha web site, <http://hcc.hanwha.co.kr> Please contact your Hanwha representative for more details on various aspects of safety, recovery and disposal of the product.

